

POSSIBLE QUANTITATIVE SHIFTS IN THE PRODUCTION  
OF PUREBRED LIVESTOCK AS SHOWN BY AN ANALYSIS OF THE  
1920 AND 1930 CENSUS REPORTS

by

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## INTRODUCTION

The quality of commercial livestock depends in the main upon the quality and quantity of purebred livestock available for use in commercial herds and flocks.

Even a casual acquaintance with the livestock industry of the United States shows a very great difference in the quantity of a given class or breed of livestock in different sections of the country.

This situation prompted a study of the question of whether these differences are more or less fixed or whether shifts in quantity production occur from decade to decade.

## THE STUDY

This thesis is largely a compilation and analysis of data relative to purebred livestock populations of the United States for the years 1920 and 1930. The data studied are the census figures issued by the Bureau of Census of the United States Department of Commerce for these years.

Tables were developed for all cattle, all horses, all swine, and all sheep and for each breed of purebred

livestock, on the basis of state populations. In each table states were listed in order from the one having the largest to the one having the smallest population for a given class or breed as the case might be.

These tables were condensed into the three major tables which appear in this thesis as follows:

Table I - Numbers in 1920 and in 1930 of all cattle, all purebred beef cattle, all purebred dairy cattle, all horses, all purebred horses, all swine, all purebred swine, all sheep, and all purebred sheep by states ranked upon the basis of percentage increase or decrease.

Table II - The five leading states in 1920 and in 1930 for each class and for each breed of purebred livestock together with the population of each class or breed.

Table III - The rank of each state in 1920 and in 1930 for the different breeds of purebred livestock - providing a state ranked among the first five for a given breed. States are listed alphabetically.

Table IV - Ratio of all livestock to purebred livestock.



Table 1 - Phase 1 - All Cattle on Farms

1920	1930	% Increase or Decrease
Total--66,639,556	Total--63,805,826	- 4.2
1. Wisconsin.....3,050,820	1. Wisconsin.....3,536,603	+16.0
2. Delaware.....46,509	2. Delaware.....53,914	+15.9
3. Maryland.....283,377	3. Maryland.....318,779	+12.4
4. Washington.....572,644	4. Washington.....624,737	+ 9.0
5. North Dakota...1,334,552	5. North Dakota...1,454,146	+ 8.9
6. Vermont.....435,480	6. Vermont.....472,183	+ 8.4
7. Kansas.....2,975,390	7. Kansas.....3,223,772	+ 7.7
8. Texas.....6,156,715	8. Texas.....6,602,702	+ 7.2
9. California.....2,008,037	9. California.....2,103,261	+ 4.7
10. Minnesota.....3,021,469	10. Minnesota.....2,156,181	+ 4.4
11. Rhode Island...30,519	11. Rhode Island...31,633	+ 3.6
12. New York.....2,144,244	12. New York.....2,220,139	+ 3.5
13. Montana.....1,268,516	13. Montana.....1,290,353	+ 2.5
14. Oklahoma.....2,073,945	14. Oklahoma.....2,097,576	+ 0.6
15. Missouri.....2,781,644	15. Missouri.....2,782,400	+ 0.1
16. Nebraska.....3,154,265	16. Nebraska.....3,150,187	- 0.1
17. Kentucky.....1,093,453	17. Kentucky.....1,086,310	- 0.6
18. Pennsylvania...1,545,548	18. Pennsylvania...1,511,202	- 2.2
19. New Jersey.....179,459	19. New Jersey.....174,699	- 2.5
20. Michigan.....1,586,042	20. Michigan.....1,528,161	- 3.0
21. Connecticut....173,764	21. Connecticut....166,654	- 4.0
22. Massachusetts..216,099	22. Massachusetts..207,389	- 4.0
23. West Virginia..587,462	23. West Virginia..556,257	- 5.3
24. Oregon.....851,108	24. Oregon.....805,120	- 5.4
25. Wyoming.....875,443	25. Wyoming.....824,039	- 5.9
26. Indiana.....1,546,095	26. Indiana.....1,446,747	- 6.3
27. Dist. of Col...965	27. Dist. of Col...839	- 6.8
28. Tennessee.....1,158,843	28. Tennessee.....1,073,898	- 7.3
29. Ohio.....1,936,823	29. Ohio.....1,772,856	- 7.7
30. Virginia.....909,795	30. Virginia.....832,946	- 8.4
31. Iowa.....4,547,708	31. Iowa.....4,136,946	- 9.0
32. Louisiana.....804,241	32. Louisiana.....729,690	- 9.3
33. Utah.....505,578	33. Utah.....441,650	-10.6
34. Maine.....300,747	34. Maine.....257,048	-10.8
35. Idaho.....714,903	35. Idaho.....622,170	-12.8
36. Nevada.....356,390	36. Nevada.....308,482	-13.4
37. South Dakota...2,348,157	37. South Dakota...1,974,050	-15.0
38. Arizona.....821,918	38. Arizona.....695,118	-15.5
39. Illinois.....2,788,238	39. Illinois.....2,342,125	-16.0
40. New Hampshire..163,653	40. New Hampshire..135,827	-17.0
41. North Carolina.644,779	41. North Carolina.532,631	-17.3
42. Colorado.....1,756,616	42. Colorado.....1,454,352	-17.7
43. New Mexico.....1,300,335	43. New Mexico.....1,055,327	-18.8
44. Mississippi.....1,250,479	44. Mississippi.....1,008,672	-19.2
45. Arkansas.....1,072,996	45. Arkansas.....812,590	-23.3
46. Alabama.....1,004,008	46. Alabama.....799,523	-30.3
47. Georgia.....1,156,738	47. Georgia.....783,063	-32.3
48. Florida.....638,981	48. Florida.....431,448	-32.4
49. South Carolina.434,097	49. South Carolina.270,171	-37.7

PERCENTAGE INCREASE OR DECREASE  
OF ALL CLASSES OF LIVESTOCK

Table I, Phase 1. Shows a decrease of 4.2 per cent in the total number of all cattle for the period studied. It also shows that there was a decrease in 33 states and an increase in only 15. There was a greater percentage decrease in the Southern states, particularly southeastern states, than in any other section of the United States.

Table 1 - Phase 2 - All Purebred Beef Cattle on Farms

1920		1930		% Increase or Decrease
Total--1,064,912		Total--770,026		- 27.9
1. Delaware.....	16	1. Delaware.....	185	+1056.0
2. New York.....	2,148	2. New York.....	3,370	+ 58.3
3. Arizona.....	5,683	3. Arizona.....	8,167	+ 47.9
4. Montana.....	19,543	4. Montana.....	28,340	+ 46.4
5. California....	13,244	5. California....	16,491	+ 27.3
6. Maine.....	2,519	6. Maine.....	3,091	+ 23.0
7. Wyoming.....	16,459	7. Wyoming.....	19,231	+ 17.5
8. Colorado.....	27,162	8. Colorado.....	31,408	+ 15.9
9. Texas.....	89,743	9. Texas.....	101,672	+ 13.7
10. New Mexico....	17,400	10. New Mexico....	19,145	+ 10.4
11. West Virginia.	8,035	11. West Virginia.	8,413	+ 3.6
12. Washington....	5,840	12. Washington....	5,771	+ 1.4
13. North Dakota..	29,024	13. North Dakota..	26,299	- 9.6
14. Nevada.....	3,769	14. Nevada.....	3,384	- 10.5
15. Kansas.....	80,665	15. Kansas.....	71,546	- 11.5
16. Nebraska.....	74,174	16. Nebraska.....	65,464	- 11.9
17. Oregon.....	11,860	17. Oregon.....	10,555	- 12.0
18. Kentucky.....	10,864	18. Kentucky.....	8,709	- 21.7
19. Maryland.....	920	19. Maryland.....	707	- 24.0
20. New Hampshire.	1,906	20. New Hampshire.	1,420	- 25.6
21. Virginia.....	8,191	21. Virginia.....	5,712	- 30.8
22. Connecticut...	677	22. Connecticut...	407	- 35.0
23. Missouri.....	83,902	23. Missouri.....	54,616	- 35.5
24. Idaho.....	15,238	24. Idaho.....	9,753	- 36.6
25. Oklahoma.....	38,738	25. Oklahoma.....	24,552	- 37.6
26. Rhode Island..	68	26. Rhode Island..	42	- 38.2
27. Massachusetts.	1,186	27. Massachusetts.	752	- 39.6
28. Utah.....	10,934	28. Utah.....	6,948	- 39.9
29. Pennsylvania..	6,101	29. Pennsylvania..	3,648	- 40.4
30. Minnesota.....	56,028	30. Minnesota.....	31,751	- 43.5
31. South Dakota..	57,100	31. South Dakota..	31,284	- 45.3
32. Michigan.....	16,267	32. Michigan.....	8,437	- 46.6
33. Iowa.....	151,359	33. Iowa.....	81,153	- 46.8
34. New Jersey....	93	34. New Jersey....	48	- 48.5
35. Vermont.....	1,209	35. Vermont.....	721	- 49.0
36. North Carolina	3,085	36. North Carolina	1,597	- 49.5
37. Tennessee.....	13,319	37. Tennessee.....	6,365	- 53.6
38. Ohio.....	25,502	38. Ohio.....	11,261	- 57.0
39. Alabama.....	4,525	39. Alabama.....	1,857	- 59.4
40. Illinois.....	73,584	40. Illinois.....	29,360	- 60.5
41. Wisconsin.....	22,610	41. Wisconsin.....	8,857	- 62.5
42. Indiana.....	29,509	42. Indiana.....	11,427	- 63.2
43. Georgia.....	4,397	43. Georgia.....	1,437	- 68.9
44. Arkansas.....	6,536	44. Arkansas.....	1,866	- 70.5
45. Louisiana.....	3,083	45. Louisiana.....	838	- 74.9
46. Florida.....	1,408	46. Florida.....	255	- 82.5
47. Mississippi...	7,634	47. Mississippi...	1,353	- 82.8
48. South Carolina	1,680	48. South Carolina	333	- 84.3

Table I, Phase 2. There was a percentage decrease in purebred beef cattle in 36 states and a percentage increase in 12. The percentage decrease for the United States as a whole was 27.9 per cent.

Significant from the standpoint of numbers was the decrease in purebred beef cattle in states having great beef production potentialities, such as Kansas, with a 11.5 per cent decrease; Nebraska, 11.9 per cent; Missouri, 35.5 per cent; Iowa, 46.8 per cent; and Illinois 60.5 per cent.

The greatest percentage decrease in purebred beef cattle in the whole United States was in the deep south, ranging from 53.6 per cent in Tennessee to 84.3 per cent in South Carolina.

Texas outranked all other states in the total number of purebred beef cattle in 1930, having approximately 25 per cent more than Iowa, its nearest competitor. In 1920 there were 67 per cent more purebred beef cattle in Iowa than in Texas.

There were five states with a purebred beef cattle population that exceeded fifty thousand each - Texas, Kansas, Nebraska, Missouri, and Iowa. These five states had a population of 375,000 which is 52 per cent of the

total for the United States.

The ratio of all cattle to purebred beef cattle in 1920 was 62:1. In 1930 this ratio was 82:1.



Table 1 - Phase 3 - All Purebred Dairy Cattle on Farms as Shown

1920		1930		% Increase or Decrease
Total--916,602		Total--1,280,161		+ 39.6
1. Minnesota.....	32,668	1. Minnesota.....	78,650	+140.7
2. Utah.....	2,922	2. Utah.....	6,848	+133.9
3. Maryland.....	8,668	3. Maryland.....	19,294	+123.7
4. Missouri.....	19,037	4. Missouri.....	31,548	+119.1
5. Iowa.....	20,286	5. Iowa.....	43,702	+115.8
6. North Dakota....	4,797	6. North Dakota....	9,354	+ 94.9
7. Rhode Island....	1,651	7. Rhode Island....	3,182	+ 92.7
8. Kentucky.....	8,829	8. Kentucky.....	16,903	+ 90.9
9. Oklahoma.....	8,539	9. Oklahoma.....	16,021	+ 87.6
10. Mississippi.....	8,367	10. Mississippi.....	15,168	+ 82.4
11. South Dakota....	5,248	11. South Dakota....	9,141	+ 74.1
12. Delaware.....	1,691	12. Delaware.....	2,869	+ 71.2
13. Texas.....	23,364	13. Texas.....	39,981	+ 71.0
14. Oregon.....	12,852	14. Oregon.....	21,755	+ 69.4
15. Indiana.....	21,115	15. Indiana.....	35,751	+ 69.1
16. Tennessee.....	11,347	16. Tennessee.....	18,869	+ 66.2
17. Kansas.....	17,058	17. Kansas.....	27,556	+ 61.5
18. Washington.....	12,720	18. Washington.....	19,597	+ 54.4
19. Michigan.....	46,533	19. Michigan.....	71,750	+ 54.2
20. West Virginia..	4,450	20. West Virginia..	6,863	+ 54.0
21. North Carolina..	7,697	21. North Carolina..	11,788	+ 53.1
22. Wyoming.....	1,071	22. Wyoming.....	1,596	+ 49.0
23. New Jersey.....	11,538	23. New Jersey.....	17,075	+ 48.0
24. Pennsylvania....	75,189	24. Pennsylvania....	108,353	+ 44.1
25. Virginia.....	9,586	25. Virginia.....	14,150	+ 42.6
26. Illinois.....	36,412	26. Illinois.....	59,675	+ 38.8
27. Nebraska.....	7,873	27. Nebraska.....	11,933	+ 38.7
28. Wisconsin.....	114,917	28. Wisconsin.....	152,114	+ 32.3
29. Montana.....	3,451	29. Montana.....	4,551	+ 31.8
30. Colorado.....	6,448	30. Colorado.....	8,155	+ 26.4
31. Dist. of Col....	186	31. Dist. of Col....	234	+ 25.8
32. Louisiana.....	3,415	32. Louisiana.....	4,234	+ 23.9
33. Arizona.....	2,772	33. Arizona.....	3,427	+ 23.6
34. California.....	19,144	34. California.....	23,113	+ 20.7
35. Maine.....	15,683	35. Maine.....	16,021	+ 17.7
36. Ohio.....	70,882	36. Ohio.....	82,102	+ 15.7
37. Nevada.....	405	37. Nevada.....	1,033	+ 15.5
38. South Carolina..	5,184	38. South Carolina..	5,969	+ 15.1
39. Vermont.....	28,549	39. Vermont.....	25,716	+ 13.4
40. Idaho.....	4,138	40. Idaho.....	9,557	+ 13.1
41. New York.....	153,037	41. New York.....	155,626	+ 10.7
42. Alabama.....	6,108	42. Alabama.....	6,764	+ 10.7
43. Massachusetts...	18,807	43. Massachusetts...	19,552	+ 9.2
44. Connecticut.....	10,284	44. Connecticut.....	12,239	+ 8.5
45. New Hampshire...	10,750	45. New Hampshire...	11,179	+ 3.9
46. Florida.....	2,930	46. Florida.....	2,841	- 3.1
47. Georgia.....	8,727	47. Georgia.....	8,432	- 3.4
48. New Mexico.....	1,327	48. New Mexico.....	1,322	- 3.7
49. Arkansas.....	6,950	49. Arkansas.....	6,532	- 6.3

Table I, Phase 3. The purebred dairy cattle table shows a percentage increase in 44 states and a decrease in only four. The percentage increase for the United States as a whole was 39.6 per cent.

The seven states - Minnesota, Michigan, Pennsylvania, Illinois, Wisconsin, Ohio, and New York had a total population of 708,270 or 55 per cent of the total purebred dairy cattle in the United States.

The sections of the United States that lead in purebred dairy cattle population are: first, the New England states; second, the North Central states. There were no important shifts, but a general increase in all breeds.

The ratio of all cattle to all purebred dairy cattle in 1920 was 73:1. This ratio narrowed in 1930 to 49:1.

Table 1 - Phase 4 - All Horses on Farms

1920		1930		% Increase or Decrease
Total--19,767,161		Total--13,510,839		-33.0
1. Wyoming.....	198,295	1. Wyoming.....	173,375	-12.6
2. Minnesota.....	932,794	2. Minnesota.....	805,093	-13.6
3. Vermont.....	77,231	3. Vermont.....	52,279	-19.3
4. Nevada.....	50,486	4. Nevada.....	40,559	-19.8
5. Wisconsin.....	668,723	5. Wisconsin.....	545,936	-20.1
6. Nebraska.....	961,396	6. Nebraska.....	754,296	-21.5
7. Colorado.....	420,704	7. Colorado.....	329,344	-21.7
8. New Mexico.....	182,686	8. New Mexico.....	141,123	-22.7
9. Texas.....	991,362	9. Texas.....	762,042	-23.0
10. South Dakota..	817,058	10. South Dakota..	612,058	-23.9
11. Iowa.....	1,386,552	11. Iowa.....	1,047,527	-24.4
12. Utah.....	125,471	12. Utah.....	91,218	-27.2
13. North Dakota..	855,682	13. North Dakota..	612,058	-28.4
14. Kansas.....	1,082,827	14. Kansas.....	714,860	-28.7
15. Idaho.....	293,123	15. Idaho.....	206,086	-29.6
16. Oklahoma.....	738,443	16. Oklahoma.....	505,620	-31.5
17. Montana.....	668,723	17. Montana.....	450,264	-32.6
18. Louisiana.....	178,756	18. Louisiana.....	118,440	-33.4
19. West Virginia.	169,148	19. West Virginia.	112,638	-33.4
20. Maryland.....	141,341	20. Maryland.....	94,099	-33.4
21. Missouri.....	906,220	21. Missouri.....	603,174	-34.9
22. Virginia.....	312,465	22. Virginia.....	203,174	-34.9
23. Delaware.....	27,752	23. Delaware.....	17,833	-35.7
24. Kentucky.....	382,442	24. Kentucky.....	247,955	-35.1
25. Illinois.....	1,296,852	25. Illinois.....	820,850	-36.6
26. Michigan.....	605,609	26. Michigan.....	382,660	-36.8
27. Maine.....	94,350	27. Maine.....	60,948	-37.3
28. Indiana.....	717,233	28. Indiana.....	443,411	-38.1
29. Pennsylvania..	505,966	29. Pennsylvania..	311,739	-38.3
30. Washington....	296,381	30. Washington....	182,503	-38.4
31. Ohio.....	810,692	31. Ohio.....	494,947	-38.9
32. Oregon.....	271,559	32. Oregon.....	178,875	-39.0
33. New York.....	536,171	33. New York.....	320,460	-40.0
34. Arizona.....	136,167	34. Arizona.....	79,699	-41.4
35. California....	402,407	35. California....	225,965	-44.3
36. Florida.....	38,570	36. Florida.....	21,300	-44.7
37. Tennessee.....	317,921	37. Tennessee.....	175,375	-44.8
38. North Carolina	171,436	38. North Carolina	86,716	-45.3
39. Arkansas.....	251,926	39. Arkansas.....	137,747	-45.5
40. New Jersey....	72,621	40. New Jersey....	39,269	-45.8
41. Connecticut...	38,125	41. Connecticut...	20,735	-45.6
42. New Hampshire.	38,194	42. New Hampshire.	20,101	-47.1
43. Alabama.....	30,462	43. Alabama.....	14,840	-50.2
44. Massachusetts.	50,605	44. Massachusetts.	24,797	-50.9
45. Rhode Island..	6,540	45. Rhode Island..	3,199	-51.0
46. Mississippi...	214,852	46. Mississippi...	102,677	-52.1
47. Dist. of Col..	311	47. Dist. of Col..	144	-54.4
48. South Carolina	77,517	48. South Carolina	30,497	-60.6
49. Georgia.....	100,503	49. Georgia.....	37,325	-62.8



Table I, Phase 4. The total number of horses decreased 33.0 per cent. There was no state that had an increase for the ten years - 1920 to 1930.

The eight states - Minnesota, Nebraska, Iowa, Kansas, Missouri, Illinois, Indiana, and Ohio, most of which are corn belt states, had a combined population of 41 per cent of the total for the United States.

Table 1 - Phase 5 - All Purebred Horses on Farms

1920		1930		% Increase or Decrease
Total--120,540		Total--67,378		-44.1
1. Kentucky.....	3,491	1. Kentucky.....	7,252	+110.3
2. Virginia.....	1,809	2. Virginia.....	2,325	+ 28.7
3. Maryland.....	821	3. Maryland.....	1,046	+ 28.0
4. Delaware.....	46	4. Delaware.....	55	+ 19.5
5. New Jersey.....	463	5. New Jersey.....	531	+ 14.8
6. Rhode Island...	75	6. Rhode Island...	65	- 10.3
7. California.....	1,615	7. California.....	1,465	- 15.1
8. Nevada.....	321	8. Nevada.....	212	- 34.0
9. Oregon.....	1,538	9. Oregon.....	974	- 37.8
10. New York.....	2,693	10. New York.....	1,704	- 38.1
11. Maine.....	299	11. Maine.....	186	- 38.9
12. Minnesota.....	4,500	12. Minnesota.....	2,740	- 39.2
13. Michigan.....	2,779	13. Michigan.....	1,707	- 40.0
14. Wisconsin.....	3,230	14. Wisconsin.....	1,980	- 40.0
15. Georgia.....	192	15. Georgia.....	13	- 41.5
16. Texas.....	1,793	16. Texas.....	1,066	- 42.8
17. Washington.....	1,244	17. Washington.....	721	- 43.5
18. Indiana.....	5,265	18. Indiana.....	3,010	- 43.5
19. Ohio.....	7,257	19. Ohio.....	4,113	- 43.8
20. Pennsylvania...	3,632	20. Pennsylvania...	2,037	- 44.5
21. West Virginia..	546	21. West Virginia..	299	- 45.8
22. New Mexico.....	261	22. New Mexico.....	136	- 48.0
23. Massachusetts..	510	23. Massachusetts..	259	- 49.2
24. Missouri.....	4,480	24. Missouri.....	2,230	- 51.2
25. Nebraska.....	5,654	25. Nebraska.....	2,782	- 51.4
26. Iowa.....	15,450	26. Iowa.....	7,494	- 53.2
27. Illinois.....	15,559	27. Illinois.....	7,466	- 54.2
28. Colorado.....	2,043	28. Colorado.....	920	- 56.1
29. Oklahoma.....	2,786	29. Oklahoma.....	1,265	- 56.3
30. Wyoming.....	1,060	30. Wyoming.....	480	- 58.0
31. Kansas.....	8,369	31. Kansas.....	3,474	- 59.0
32. Vermont.....	661	32. Vermont.....	267	- 59.8
33. North Dakota...	5,636	33. North Dakota...	2,266	- 60.2
34. Utah.....	635	34. Utah.....	253	- 60.6
35. New Hampshire..	265	35. New Hampshire..	106	- 61.6
36. South Dakota...	5,321	36. South Dakota...	2,028	- 62.1
37. Connecticut....	207	37. Connecticut....	77	- 65.0
38. Tennessee.....	832	38. Tennessee.....	253	- 69.7
39. North Carolina.	193	39. North Carolina.	56	- 72.1
40. Idaho.....	1,699	40. Idaho.....	525	- 73.5
41. Montana.....	3,585	41. Montana.....	964	- 74.8
42. Arkansas.....	446	42. Arkansas.....	112	- 75.9
43. Florida.....	58	43. Florida.....	10	- 82.7
44. Louisiana.....	262	44. Louisiana.....	46	- 83.0
45. Alabama.....	366	45. Alabama.....	63	- 84.2
46. Arizona.....	178	46. Arizona.....	63	- 88.2
47. South Carolina.	110	47. South Carolina.	13	- 88.2
48. Mississippi....	305	48. Mississippi....	27	- 92.6

Table I, Phase 5. There was a decline of 44.1 per cent in the total number of purebred horses. This percentage decline is 11 per cent greater than the percentage decline of all horses.

In 1920 the ratio of all horses to purebred horses was 164:1. In 1930 this ratio was 202:1.

Table 1 - Phase 6 - All Swine on Farms

1920	1930	% Increase or Decrease
Total--59,346,409	Total--56,287,920	- 5.3
1. Kansas..... 1,733,202	1. Kansas..... 2,473,094	+42.2
2. Minnesota..... 2,390,862	2. Minnesota..... 3,315,466	+40.9
3. Wyoming..... 72,233	3. Wyoming..... 97,993	+35.6
4. South Dakota.. 1,953,826	4. South Dakota.. 2,637,188	+34.8
5. North Dakota.. 458,265	5. North Dakota.. 628,070	+34.8
6. Iowa..... 7,864,304	6. Iowa..... 10,055,591	+27.8
7. Montana..... 167,060	7. Montana..... 210,036	+25.7
8. Nebraska..... 3,435,690	8. Nebraska..... 4,679,161	+22.9
9. Idaho..... 240,030	9. Idaho..... 267,614	+11.4
10. Colorado..... 449,866	10. Colorado..... 462,301	+ 2.7
11. Dist. of Col.. 1,331	11. Dist. of Col.. 1,353	+ 1.7
12. Wisconsin..... 1,596,419	12. Wisconsin..... 1,611,993	+ 0.9
13. Illinois..... 4,639,182	13. Illinois..... 4,651,772	+ 0.2
14. Massachusetts. 104,192	14. Massachusetts. 104,768	+ 0.5
15. Missouri..... 3,888,677	15. Missouri..... 3,861,240	- 0.6
16. Texas..... 2,225,558	16. Texas..... 1,561,461	- 2.5
17. Pennsylvania.. 1,190,951	17. Pennsylvania.. 657,281	- 4.8
18. Ohio..... 3,083,846	18. Ohio..... 2,777,938	- 6.6
19. New Jersey.... 139,222	19. New Jersey.... 128,466	- 7.7
20. Indiana..... 3,757,135	20. Indiana..... 3,347,246	-10.4
21. Louisiana..... 850,562	21. Louisiana..... 759,412	-10.7
22. Nevada..... 26,645	22. Nevada..... 22,746	-14.6
23. Oregon..... 266,778	23. Oregon..... 224,539	-15.8
24. Oklahoma..... 1,304,094	24. Oklahoma..... 1,051,190	-18.6
25. Delaware..... 38,621	25. Delaware..... 30,341	-21.4
26. Florida..... 755,481	26. Florida..... 567,115	-23.6
27. West Virginia. 305,211	27. West Virginia. 221,681	-24.0
28. New Mexico.... 87,906	28. New Mexico.... 65,592	-25.3
29. Virginia..... 941,308	29. Virginia..... 699,867	-26.7
30. California.... 909,272	30. California.... 657,791	-27.6
31. Washington.... 264,747	31. Washington.... 186,275	-29.6
32. Kentucky..... 1,504,431	32. Kentucky..... 1,034,593	-31.2
33. Arizona..... 49,599	33. Arizona..... 23,782	-31.9
34. Utah..... 99,361	34. Utah..... 67,196	-32.3
35. Maryland..... 306,452	35. Maryland..... 205,361	-32.9
36. North Carolina 1,271,270	36. North Carolina 838,994	-34.0
37. Georgia..... 2,071,051	37. Georgia..... 1,357,400	-34.4
38. Alabama..... 1,496,893	38. Alabama..... 831,994	-43.8
39. South Carolina 844,981	39. South Carolina 471,104	-44.0
40. Tennessee..... 1,832,307	40. Tennessee..... 1,002,319	-45.2
41. Arkansas..... 1,378,091	41. Arkansas..... 776,208	-45.9
42. Michigan..... 1,106,066	42. Michigan..... 496,557	-46.0
43. Mississippi... 1,373,311	43. Mississippi... 732,781	-46.5
44. Maine..... 91,204	44. Maine..... 45,712	-49.7
45. Connecticut... 61,071	45. Connecticut... 27,516	-54.9
46. Vermont..... 72,761	46. Vermont..... 29,432	-59.4
47. Rhode Island.. 12,859	47. Rhode Island.. 4,811	-62.5
48. New Hampshire. 41,655	48. New Hampshire. 15,576	-62.6
49. New York..... 600,560	49. New York..... 220,826	-63.2

Table I, Phase 6. This table shows a decline of 5.3 per cent in the total number of swine in the United States.

In view of the fact that corn plays such an important part in hog production, it is not surprising to find a concentration of swine in the corn belt. In 1920, Iowa with 10,055,591 head, led in the number of all swine. Nebraska ranked second with 4,679,161 head.



Table 1 - Phase 7 - All Purebred Swine on Farms

1920		1930		% Increase or Decrease
Total--2,049,000		Total--357,079		- 82.5
1. Colorado.....	17,951	1. Colorado.....	5,683	- 13.3
2. Montana.....	5,351	2. Montana.....	2,331	- 40.4
3. Nevada.....	449	3. Nevada.....	269	- 40.9
4. Wyoming.....	1,498	4. Wyoming.....	800	- 49.8
5. Idaho.....	7,299	5. Idaho.....	3,536	- 52.3
6. Arizona.....	1,914	6. Arizona.....	768	- 60.3
7. Utah.....	2,492	7. Utah.....	943	- 64.5
8. Nebraska.....	112,502	8. Nebraska.....	32,521	- 71.4
9. North Dakota...	22,076	9. North Dakota...	6,354	- 71.5
10. Delaware.....	653	10. Delaware.....	175	- 71.7
11. West Virginia..	7,820	11. West Virginia..	2,026	- 74.2
12. Kansas.....	65,870	12. Kansas.....	16,242	- 76.3
13. Maryland.....	5,860	13. Maryland.....	1,413	- 76.6
14. Iowa.....	289,942	14. Iowa.....	66,189	- 77.4
15. Massachusetts..	6,533	15. Massachusetts..	1,420	- 78.6
16. Washington.....	10,006	16. Washington.....	2,121	- 78.7
17. Maine.....	2,913	17. Maine.....	602	- 79.6
18. Texas.....	70,853	18. Texas.....	14,922	- 80.1
19. Minnesota.....	99,443	19. Minnesota.....	19,210	- 81.1
20. Louisiana.....	11,675	20. Louisiana.....	2,689	- 81.7
21. Oregon.....	11,617	21. Oregon.....	2,494	- 82.9
22. Pennsylvania...	34,775	22. Pennsylvania...	6,340	- 83.6
23. Virginia.....	20,867	23. Virginia.....	4,135	- 83.6
24. North Carolina.	27,374	24. North Carolina.	4,732	- 83.9
25. Alabama.....	32,397	25. Alabama.....	5,374	- 84.4
26. Ohio.....	96,908	26. Ohio.....	15,850	- 84.4
27. Wisconsin.....	52,237	27. Wisconsin.....	8,287	- 84.5
28. Oklahoma.....	53,888	28. Oklahoma.....	8,976	- 84.7
29. Kentucky.....	33,619	29. Kentucky.....	5,608	- 84.9
30. South Dakota...	91,853	30. South Dakota...	13,975	- 85.5
31. Illinois.....	215,965	31. Illinois.....	31,701	- 85.7
32. Vermont.....	2,111	32. Vermont.....	202	- 86.1
33. California.....	35,741	33. California.....	5,414	- 86.6
34. Rhode Island...	513	34. Rhode Island...	66	- 87.6
35. South Carolina	21,282	35. South Carolina	2,883	- 87.6
36. Missouri.....	148,811	36. Missouri.....	18,825	- 87.8
37. Indiana.....	159,696	37. Indiana.....	16,660	- 89.9
38. Michigan.....	33,527	38. Michigan.....	4,058	- 89.9
39. Georgia.....	46,780	39. Georgia.....	5,316	- 90.1
40. New Mexico.....	3,245	40. New Mexico.....	353	- 90.4
41. Tennessee.....	47,471	41. Tennessee.....	4,364	- 91.9
42. Arkansas.....	46,006	42. Arkansas.....	3,620	- 92.2
43. New Jersey.....	4,622	43. New Jersey.....	471	- 92.5
44. New York.....	19,230	44. New York.....	1,561	- 92.9
45. Mississippi....	42,923	45. Mississippi....	3,624	- 93.5
46. Florida.....	18,638	46. Florida.....	1,651	- 94.3
47. New Hampshire..	2,009	47. New Hampshire..	100	- 94.4
48. Connecticut....	3,366	48. Connecticut....	225	- 98.2
49. Dist. of Col...	59	49. Dist. of Col...	0	-100.0

Table I, Phase 7. There was a decline of 82.5 per cent in the number of purebred swine during this period. It is significant to note that the total decline in all swine was 3,058,489 head and the total decline in all purebred swine was 55 per cent as great as the actual number decline in all swine. The significance of this situation is further emphasized by the fact that in 1920 there was 29 times as many all swine as there were purebred swine, whereas there was 160 times as many all swine as there were purebred swine in 1930.

Approximately one-half of the purebred swine, as well as all swine, was in the corn belt states in 1930.

Table 1 - Phase 8 - All Sheep on Farms

1920	1930	% Increase or Decrease
Total--35,033,516	Total--56,975,084	+ 62.0
1. North Dakota... 298,912	1. North Dakota... 856,621	+185.8
2. Texas..... 2,573,485	2. Texas..... 7,021,334	+173.2
3. Virginia..... 342,367	3. Virginia..... 828,526	+141.2
4. Kentucky..... 707,845	4. Kentucky..... 1,597,223	+126.4
5. Oklahoma..... 105,370	5. Oklahoma..... 221,616	+110.3
6. Montana..... 2,082,919	6. Montana..... 4,027,457	+ 93.3
7. Maryland..... 103,027	7. Maryland..... 194,152	+ 88.4
8. Wyoming..... 1,859,775	8. Wyoming..... 3,417,460	+ 83.9
9. Washington..... 623,779	9. Washington..... 1,142,603	+ 83.1
10. Minnesota..... 509,064	10. Minnesota..... 927,008	+ 82.3
11. West Virginia.. 509,831	11. West Virginia.. 896,661	+ 75.8
12. Indiana..... 643,889	12. Indiana..... 1,118,184	+ 73.7
13. Utah..... 1,691,795	13. Utah..... 2,922,457	+ 73.1
14. Tennessee..... 364,196	14. Tennessee..... 625,888	+ 71.8
15. California..... 2,400,151	15. California..... 4,083,728	+ 70.1
16. Oregon..... 2,002,378	16. Oregon..... 3,319,271	+ 65.7
17. North Carolina. 90,556	17. North Carolina. 146,285	+ 65.5
18. Delaware..... 3,220	18. Delaware..... 5,326	+ 65.4
19. Kansas..... 361,102	19. Kansas..... 574,336	+ 59.3
20. Arizona..... 881,914	20. Arizona..... 1,339,905	+ 51.9
21. Illinois..... 637,685	21. Illinois..... 944,597	+ 48.1
22. Idaho..... 2,356,370	22. Idaho..... 3,301,754	+ 44.2
23. Iowa..... 1,092,095	23. Iowa..... 1,557,517	+ 42.6
24. New Mexico..... 1,640,775	24. New Mexico..... 2,291,426	+ 38.2
25. Colorado..... 1,813,255	25. Colorado..... 2,505,159	+ 38.1
26. Missouri..... 1,271,616	26. Missouri..... 1,750,089	+ 36.8
27. Nevada..... 880,580	27. Nevada..... 1,201,837	+ 36.4
28. South Dakota... 843,696	28. South Dakota... 1,150,346	+ 36.3
29. Louisiana..... 129,816	29. Louisiana..... 171,432	+ 32.0
30. Connecticut.... 10,842	30. Connecticut.... 13,466	+ 24.6
31. New York..... 578,726	31. New York..... 618,075	+ 22.3
32. Wisconsin..... 479,991	32. Wisconsin..... 584,608	+ 21.8
33. Ohio..... 2,102,500	33. Ohio..... 2,535,664	+ 20.6
34. Michigan..... 1,209,191	34. Michigan..... 1,416,243	+ 17.9
35. Pennsylvania... 508,711	35. Pennsylvania... 589,774	+ 16.1
36. New Jersey..... 10,471	36. New Jersey..... 11,744	+ 12.1
37. Rhode Island... 2,736	37. Rhode Island... 3,060	+ 11.8
38. Nebraska..... 573,217	38. Nebraska..... 496,411	- 9.9
39. Arkansas..... 100,159	39. Arkansas..... 85,800	- 14.3
40. Alabama..... 81,868	40. Alabama..... 69,156	- 14.3
41. Maine..... 119,471	41. Maine..... 99,782	- 16.4
42. Vermont..... 62,756	42. Vermont..... 51,175	- 18.4
43. South Carolina. 23,581	43. South Carolina. 18,841	- 20.1
44. New Hampshire.. 28,021	44. New Hampshire.. 21,254	- 24.1
45. Florida..... 64,659	45. Florida..... 47,275	- 26.8
46. Georgia..... 72,173	46. Georgia..... 49,690	- 31.1
47. Massachusetts.. 18,880	47. Massachusetts.. 12,716	- 32.6
48. Mississippi.... 164,440	48. Mississippi.... 110,056	- 33.0
49. Dist. of Col... 10	49. Dist. of Col... 6	- 40.0



Table I, Phase 8. There was a 62 per cent increase in the total number of all sheep. This was the highest percentage gain of any class or breed of livestock for the period studied.

There were 37 states that had an increase, and 11 a decrease.

In 1930, Texas moved into a positive first place with seven million. This is one-eighth of the total sheep population of the United States. California was the closest rival with four million.

Table 1 - Phase 9 - All Purebred Sheep on Farms

1920	1930	% Increase or Decrease
Total--463,504	Total--456,565	- 1.5
1. Delaware..... 12	1. Delaware..... 32	+166.6
2. Kentucky..... 5,549	2. Kentucky..... 11,822	+114.0
3. Maryland..... 1,092	3. Maryland..... 1,998	+ 90.6
4. Tennessee..... 2,694	4. Tennessee..... 4,579	+ 76.4
5. Rhode Island.. 93	5. Rhode Island.. 150	+ 63.5
6. Colorado..... 7,982	6. Colorado..... 12,108	+ 52.5
7. Virginia..... 3,785	7. Virginia..... 5,439	+ 50.3
8. North Dakota.. 4,989	8. North Dakota.. 7,260	+ 46.3
9. Utah..... 30,013	9. Utah..... 41,102	+ 37.0
10. New Hampshire. 739	10. New Hampshire. 979	+ 33.0
11. West Virginia. 5,424	11. West Virginia. 7,056	+ 30.3
12. Texas..... 17,119	12. Texas..... 57,431	+ 23.6
13. Oregon..... 38,738	13. Oregon..... 39,380	+ 16.9
14. Indiana..... 9,282	14. Indiana..... 10,245	+ 10.5
15. South Carolina 192	15. South Carolina 208	+ 8.4
16. Washington.... 8,950	16. Washington.... 9,163	+ 2.5
17. Michigan..... 21,342	17. Michigan..... 21,785	+ 2.3
18. Minnesota..... 8,729	18. Minnesota..... 8,740	+ 0.1
19. Missouri..... 15,383	19. Missouri..... 15,310	- 0.5
20. Kansas..... 4,565	20. Kansas..... 4,500	- 0.6
21. North Carolina 1,207	21. North Carolina 1,167	- 3.0
22. Louisiana..... 194	22. Louisiana..... 120	- 3.8
23. Ohio..... 39,444	23. Ohio..... 37,034	- 6.3
24. Montana..... 24,208	24. Montana..... 22,194	- 8.5
25. Maine..... 2,361	25. Maine..... 2,150	- 9.3
26. Oklahoma..... 2,942	26. Oklahoma..... 2,608	- 11.2
27. Connecticut... 841	27. Connecticut... 679	- 19.0
28. Wyoming..... 15,612	28. Wyoming..... 12,724	- 19.2
29. South Dakota.. 6,487	29. South Dakota.. 5,222	- 19.9
30. Iowa..... 19,522	30. Iowa..... 15,677	- 20.3
31. Nebraska..... 3,448	31. Nebraska..... 2,879	- 20.6
32. Vermont..... 3,035	32. Vermont..... 2,374	- 22.0
33. Massachusetts. 1,245	33. Massachusetts. 956	- 24.0
34. New York..... 18,338	34. New York..... 13,678	- 28.8
35. Illinois..... 13,300	35. Illinois..... 8,998	- 33.9
36. Wisconsin..... 10,660	36. Wisconsin..... 7,092	- 36.9
37. Idaho..... 47,107	37. Idaho..... 29,087	- 38.5
38. Pennsylvania.. 15,781	38. Pennsylvania.. 9,402	- 42.7
39. Mississippi... 481	39. Mississippi... 258	- 46.6
40. Alabama..... 323	40. Alabama..... 180	- 47.8
41. New Mexico.... 10,478	41. New Mexico.... 5,289	- 51.9
42. Arizona..... 2,205	42. Arizona..... 1,015	- 54.3
43. Nevada..... 6,342	43. Nevada..... 2,926	- 54.4
44. California.... 28,831	44. California.... 12,867	- 57.0
45. Arkansas..... 799	45. Arkansas..... 244	- 70.1
46. New Jersey.... 1,122	46. New Jersey.... 329	- 72.3
47. Georgia..... 420	47. Georgia..... 107	- 77.8
48. Florida..... 99	48. Florida..... 22	- 85.5

Table I, Phase 9. A decrease of 1.5 per cent in the total number of purebred sheep was the lowest of any group of purebred livestock, dairy cattle excepted. The ratio of all sheep to all purebred sheep in 1920 was 73:1. In 1930 the ratio had widened to 125:1.

Table 2 - Phase 1 - Five leading states for each class of livestock  
and for the breeds within each class.

# CATTLE

## All Cattle

1920		1930		% Increase or Decrease
1. Texas.....	6,156,715	1. Texas.....	6,602,702	+ 7.4
2. Iowa.....	4,547,708	2. Iowa.....	4,136,156	- 9.1
3. Nebraska.....	3,154,265	3. Wisconsin.....	3,536,603	+16.2
4. Wisconsin.....	3,050,829	4. Kansas.....	3,223,772	+ 7.7
5. Minnesota.....	3,021,469	5. Minnesota.....	3,156,181	+ 4.6
Total U. S.	66,639,556	Total U. S.	63,895,826	- 3.3

## All Purebred Beef Cattle

1. Iowa.....	151,359	1. Texas.....	101,672	+12.6
2. Texas.....	89,743	2. Iowa.....	81,153	-46.5
3. Missouri.....	83,902	3. Kansas.....	71,546	-35.3
4. Kansas.....	80,665	4. Nebraska.....	65,464	-11.4
5. Nebraska.....	74,174	5. Missouri.....	54,616	-11.6
Total U. S.	1,064,912	Total U. S.	770,026	-27.8

## Aberdeen Angus

1. Iowa.....	27,457	1. Iowa.....	13,364	-52.1
2. Missouri.....	12,916	2. Missouri.....	8,397	-37.6
3. Illinois.....	10,106	3. Illinois.....	3,862	-62.5
4. Minnesota.....	5,398	4. Nebraska.....	2,692	-42.8
5. Indiana.....	4,807	5. Kansas.....	2,673	-43.1
Total U. S.	108,524	Total U. S.	58,715	-48.0

## Galloway

1. Kansas.....	2,457	1. Kansas.....	208	-97.0
2. Missouri.....	1,114	2. Montana.....	186	- 6.0
3. South Dakota.....	697	3. Nebraska.....	142	-65.5
4. Texas.....	530	4. South Dakota.....	76	-90.0
5. Nebraska.....	411	5. North Dakota.....	61	-66.6
Total U. S.	7,225	Total U. S.	829	-90.2

## Hereford

1. Texas.....	70,021	1. Texas.....	93,827	+34.0
2. Iowa.....	40,894	2. Kansas.....	42,442	+ 9.9
3. Kansas.....	38,695	3. Nebraska.....	42,166	+58.4
4. Missouri.....	32,419	4. Missouri.....	29,566	- 8.9
5. Nebraska.....	27,418	5. Iowa.....	26,833	-35.2
Total U. S.	405,582	Total U. S.	437,247	+ 7.9

## Shorthorn

1. Iowa.....	69,560	1. Iowa.....	36,257	-48.3
2. Illinois.....	39,083	2. Kansas.....	23,522	-16.4
3. Nebraska.....	32,777	3. Minnesota.....	23,193	-28.5
4. Minnesota.....	32,419	4. Nebraska.....	16,778	-49.3
5. Missouri.....	30,517	5. North Dakota.....	15,723	+14.7
Total U. S.	416,995	Total U. S.	249,682	-40.1

FIVE TOP RANKING STATES FOR EACH  
CLASS AND BREED OF LIVESTOCK

Table II, Phase 1. The leading breed of the pure-bred beef cattle in 1930 was the Hereford, the population of which was about double that of the Shorthorn, which ranked second.

The Hereford was the only breed of beef cattle that increased in population for the ten-year period. The decrease in the Shorthorns, Angus, and Galloways was greater than 40 per cent for each breed.



Table 2 - Phase 2 - Five leading states for each class of livestock  
and for the breeds within each class.

# CATTLE

## All Cattle

1920		1930		% Increase or Decrease
1. Texas.....	6,156,715	1. Texas.....	6,602,702	+ 7.4
2. Iowa.....	4,547,708	2. Iowa.....	4,136,156	- 9.1
3. Nebraska.....	3,154,265	3. Wisconsin....	3,536,603	+ 16.2
4. Wisconsin....	3,050,829	4. Kansas.....	3,223,772	+ 7.7
5. Minnesota....	3,021,469	5. Minnesota....	3,156,181	+ 4.6
Total U. S.	66,639,556	Total U. S.	63,895,826	- 3.3

## All Purebred Dairy Cattle

1. New York.....	153,037	1. New York.....	155,626	+ 1.6
2. Wisconsin....	114,917	2. Wisconsin....	152,114	+ 32.3
3. Pennsylvania.	75,189	3. Pennsylvania.	108,353	+ 44.3
4. Ohio.....	70,882	4. Ohio.....	82,102	+ 16.1
5. Michigan.....	46,533	5. Minnesota....	78,650	+ 68.7
Total U. S.	916,602	Total U. S.	1,280,161	+ 28.3

## Ayrshire

1. New York.....	9,521	1. New York.....	14,881	+ 56.4
2. Vermont.....	3,808	2. Pennsylvania.	5,387	+ 78.3
3. Pennsylvania.	3,097	3. Vermont.....	4,065	+ 74.2
4. Massachusetts	1,880	4. Massachusetts	2,753	+ 47.9
5. Wisconsin.....	712	5. Kansas.....	2,297	+ 90.8

## Brown Swiss

1. Wisconsin....	1,930	1. Wisconsin....	6,433	+237.0
2. Illinois.....	1,385	2. Illinois.....	4,474	+239.1
3. New York.....	1,347	3. Iowa.....	3,414	+663.7
4. Pennsylvania.	534	4. Minnesota....	3,176	+571.2
5. Minnesota....	483	5. Michigan.....	1,547	+260.6
Total U. S.	8,283	Total U. S.	25,734	+210.7

## Guernsey

1. Wisconsin....	18,727	1. Wisconsin....	30,522	+ 65.5
2. New York.....	9,749	2. Pennsylvania.	23,601	+145.6
3. Pennsylvania.	9,618	3. New York.....	19,390	+ 99.9
4. Ohio.....	4,960	4. Minnesota....	15,147	+181.1
5. Minnesota....	4,468	5. Ohio.....	12,440	+256.3
Total U. S.	79,446	Total U. S.	200,721	+133.5

Table 2 - Phase 2 (concl.).

Holstein

1. New York.....	114,662	1. New York.....	106,311	- 8.5
2. Wisconsin....	80,845	2. Wisconsin....	105,792	+ 31.2
3. Pennsylvania.	48,652	3. Pennsylvania.	63,552	+ 31.0
4. Ohio.....	38,327	4. Minnesota....	54,072	+136.8
5. Michigan.....	32,702	5. Michigan.....	41,786	+ 28.4
Total U. S.	528,721	Total U. S.	649,739	+ 24.2

Jersey

1. Ohio.....	23,842	1. Texas.....	36,875	+ 98.8
2. Texas.....	18,718	2. Ohio.....	32,253	+ 36.6
3. New York.....	13,411	3. Missouri.....	21,030	+102.0
4. Pennsylvania.	11,036	4. Tennessee....	17,729	+ 88.1
5. Missouri.....	10,708	5. Indiana.....	16,094	+ 70.2
Total U. S.	231,834	Total U. S.	354,939	+ 53.5

Table II, Phase 2. Breeds of dairy cattle showed no indication of a shift in rank.

The "Big Three" breeds in the United States based upon population were Holstein, Jersey, and Guernsey in order named. Of these three the Guernsey, having the smallest population, had the highest per cent increase - 153.5.



Table 2 - Phase 3 - Five leading states for each class of livestock  
and for the breeds within each class.

# HORSES

## All Horses

1920		1930	%Increase or Decrease
1. Iowa.....	1,386,522	1. Iowa.....	1,047,627 - 24.5
2. Illinois.....	1,296,852	2. Illinois.....	820,850 - 39.9
3. Kansas.....	1,082,827	3. Minnesota....	805,003 - 13.6
4. Texas.....	991,362	4. Texas.....	762,042 - 23.1
5. Nebraska.....	961,396	5. Nebraska.....	754,296 - 21.6
Total U. S.	19,767,161	Total U. S.	13,510,839 - 33.0

## All Purebred Horses

1. Illinois.....	15,559	1. Iowa.....	7,494 - 53.2
2. Iowa.....	15,450	2. Illinois.....	7,466 - 50.5
3. Kansas.....	8,369	3. Kentucky.....	7,252 +110.3
4. Ohio.....	7,257	4. Ohio.....	4,113 - 43.7
5. Nebraska.....	5,654	5. Kansas.....	3,474 - 58.9
Total U. S.	120,540	Total U. S.	67,378 - 44.6

## American Saddle

1. Kentucky.....	373	1. Kentucky.....	774 +183.8
2. Missouri.....	247	2. Missouri.....	518 +112.9
3. Illinois.....	138	3. California....	222 +722.2
4. Oklahoma.....	67	4. Illinois.....	171 + 24.9
5. Tennessee.....	60	5. Oklahoma.....	103 + 54.0
Total U. S.	1,459	Total U. S.	2,443 + 70.3

## Belgian

1. Iowa.....	1,528	1. Iowa.....	1,775 + 16.5
2. Ohio.....	1,411	2. Indiana.....	1,109 - 4.5
3. Indiana.....	1,162	3. Ohio.....	1,096 - 22.4
4. Illinois.....	1,023	4. Illinois.....	789 - 23.4
5. South Dakota..	742	5. Michigan.....	610 + 27.6
Total U. S.	10,838	Total U. S.	8,841 - 19.7

## Clydesdale

1. Iowa.....	807	1. Iowa.....	257 - 68.7
2. Illinois.....	612	2. Illinois.....	162 - 21.1
3. North Dakota..	307	3. North Dakota..	134 - 57.7
4. South Dakota..	288	4. Minnesota....	110 - 55.8
5. Wisconsin.....	264	5. Wisconsin.....	90 - 66.9
Total U. S.	4,248	Total U. S.	1,454 - 66.5

Table 2 - Phase 3 (concl.).

Hackney

1. Illinois.....	110	1. Massachusetts...	72	+ 47.0
2. Pennsylvania...	85	2. New York.....	60	+ 11.1
3. New York.....	54	3. Illinois.....	51	- 53.6
4. Massachusetts..	49	4. Utah.....	14	+ 14.0
5. Connecticut....	40	5. Pennsylvania....	13	- 87.1
Total U. S.	564	Total U. S.	245	- 39.1

Percheron

1. Illinois.....	9,772	1. Illinois.....	4,989	- 50.0
2. Iowa.....	9,443	2. Iowa.....	4,820	- 49.2
3. Kansas.....	6,137	3. Kansas.....	2,811	- 54.1
4. Ohio.....	4,846	4. Ohio.....	2,542	- 47.7
5. North Dakota...	4,254	5. Nebraska.....	1,939	- 48.7
Total U. S.	70,613	Total U. S.	33,033	- 53.6

Table II, Phase 3. There was a marked decrease in the number of draft horses of all breeds during this period.

The rank of the breeds of draft horses remained the same through the period studied. No breed increased in total number.

The Percheron, although suffering a 53.6 per cent decrease, remains the leading purebred draft horse with 33,033.

The purebred light horse population showed an increase from 1920 to 1930 due chiefly to increases in American saddle horses and Thoroughbreds that were greater than the decreases in other breeds of light horses.

The number of purebred light horses in 1930, compared to the number of purebred draft horses in 1930, is relatively small.

Table 2 - Phase 4 - Five leading states for each class of livestock  
and for the breeds within each class.

# SWINE

## All Swine

1920		1930		% Increase or Decrease
1. Iowa.....	7,864,304	1. Iowa.....	10,055,591	+28.1
2. Illinois....	4,639,182	2. Nebraska....	4,679,161	+36.6
3. Missouri....	3,888,677	3. Illinois....	4,651,772	+ 2.7
4. Indiana....	3,757,135	4. Missouri....	3,861,240	- 7.2
5. Nebraska....	3,435,690	5. Indiana....	3,347,256	- 8.4
Total U.S.	59,346,409	Total U.S.	56,287,920	- 5.2

## All Purebred Swine

1. Iowa.....	289,942	1. Iowa.....	66,189	- 79.9
2. Illinois....	215,965	2. Nebraska....	32,521	- 72.7
3. Indiana....	159,696	3. Illinois....	31,701	- 87.7
4. Missouri....	148,811	4. Minnesota...	19,210	- 81.1
5. Nebraska....	112,502	5. Missouri....	18,825	- 77.3
Total U.S.	2,049,000	Total U.S.	357,079	- 84.5

## Berkshire

1. Pennsylvania.	14,055	1. Pennsylvania	1,437	- 54.4
2. New York.....	6,624	2. Virginia....	658	- 83.4
3. California...	5,348	3. N. Carolina.	629	- 82.0
4. Georgia.....	4,254	4. Ohio.....	619	- 82.8
5. Virginia.....	3,969	5. Indiana....	431	- 79.1
Total U.S.	86,676	Total U.S.	8,425	- 90.9

## Chester White

1. Iowa.....	35,761	1. Iowa.....	7,347	- 81.1
2. Illinois....	27,286	2. Illinois....	5,332	- 81.3
3. Minnesota....	13,875	3. Minnesota...	3,462	- 80.1
4. Ohio.....	12,851	4. Nebraska....	2,216	- 67.0
5. Indiana....	12,493	5. Ohio.....	2,096	- 83.9
Total U.S.	191,207	Total U.S.	41,614	- 78.7

## Duroc-Jersey

1. Iowa.....	107,123	1. Iowa.....	20,789	- 86.3
2. Illinois....	74,401	2. Illinois....	9,943	- 87.1
3. Nebraska....	50,193	3. Nebraska....	8,099	- 84.1
4. Missouri....	47,986	4. Kansas.....	6,459	- 71.8
5. Minnesota....	46,638	5. Indiana....	6,370	- 82.2
Total U.S.	819,117	Total U.S.	116,942	- 86.8

Table 2 - Phase 4 (concl.).

Hampshire

1. Iowa.....	18,740
2. Illinois.....	15,819
3. Georgia.....	12,150
4. South Dakota.	8,479
5. Nebraska.....	8,051
Total U.S.	108,782

1. Iowa.....	828	- 93.9
2. Nebraska.....	550	- 90.4
3. Illinois.....	493	- 97.9
4. Missouri.....	299	- 92.2
5. South Dakota.	297	- 96.5
Total U.S.	4,915	- 96.1

Poland China

1. Iowa.....	113,869
2. Illinois.....	84,449
3. Missouri.....	74,139
4. Indiana.....	66,786
5. Nebraska.....	42,212
Total U.S.	726,504

1. Iowa.....	2,340	- 88.6
2. Texas.....	1,765	- 94.7
3. Illinois.....	1,576	- 98.6
4. Missouri.....	1,361	- 98.3
5. Nebraska.....	1,249	- 97.5
Total U.S.	22,289	- 96.8

Table II, Phase 4. Breeds of swine ranked the same in 1930 as 1920 with the exception of the Berkshire replacing the Hampshire in fourth place.

Iowa led by a large margin in the production of all breeds of purebred swine, with the exception of the Berkshire. Pennsylvania had more than twice as many Berkshires than her nearest competitor, Virginia.

Table 2 - Phase 5 - Five leading states for each class of livestock  
and for the breeds within each class.

SHEEP

1920		1930		% Increase or Decrease
All Sheep		All Sheep		
1. Texas.....	2,573,485	1. Texas.....	7,021,334	+177.9
2. California...	2,400,151	2. California...	4,083,728	+ 70.1
3. Idaho.....	2,356,370	3. Montana.....	4,027,457	+ 97.2
4. Ohio.....	2,102,500	4. Wyoming.....	3,417,460	+ 83.9
5. Montana.....	2,082,919	5. Oregon.....	3,319,271	+ 65.7
Total U.S.	35,033,516	Total U.S.	56,975,084	+ 62.5

All Purebred Sheep

1. Idaho.....	47,107	1. Texas.....	57,431	+ 23.6
2. Ohio.....	39,444	2. Utah.....	41,102	+ 36.9
3. Oregon.....	38,738	3. Oregon.....	39,380	+ 1.8
4. Utah.....	30,013	4. Ohio.....	37,034	- 6.2
5. California...	28,831	5. Idaho.....	29,087	- 40.9
Total U.S.	463,504	Total U.S.	456,565	- 15.1

Cheviot

1. New York.....	853	1. New York.....	977	+ 14.5
2. Idaho.....	368	2. Maine.....	514	+121.1
3. Illinois.....	308	3. Ohio.....	443	- 76.0
4. Maine.....	235	4. Iowa.....	347	-209.8
5. Wisconsin....	195	5. Illinois.....	305	- 0.1
Total U.S.	3,000	Total U.S.	4,761	+ 37.4

Dorset

1. Pennsylvania.	3,503	1. Ohio.....	675	- 90.1
2. New York.....	760	2. Pennsylvania.	555	- 84.2
3. New Jersey...	492	3. New York.....	527	- 32.0
4. W. Virginia..	479	4. Vermont.....	522	- 95.5
5. Illinois.....	449	5. W. Virginia..	481	- .007
Total U.S.	8,428	Total U.S.	4,944	- 41.5

Hampshire

1. Idaho.....	14,664	1. Idaho.....	20,272	+ 40.6
2. Oregon.....	4,764	2. Oregon.....	14,706	+211.7
3. Pennsylvania.	3,911	3. Montana.....	7,770	+225.6
4. Kentucky.....	2,466	4. Colorado.....	6,465	+223.0
5. New York.....	2,399	5. Washington...	5,723	+355.3
Total U.S.	51,813	Total U.S.	103,476	+101.2

Table 2 - Phase 5 (concl.).

Leicester

1. Maine.....	154	1. Wisconsin.....	43	+4200.0
2. Minnesota....	103	2. Pennsylvania..	31	- 67.7
3. Michigan.....	100	3. New York.....	26	- 72.1
4. Pennsylvania.	96	4. Ohio.....	23	+2300.0
5. New York.....	94	5. Michigan.....	18	- 82.0
Total U.S.	767	Total U.S.	213	- 72.9

Lincoln

1. Idaho.....	5,408	1. Oregon.....	4,368	- 12.5
2. Oregon.....	4,978	2. Montana.....	404	+ 107.2
3. Washington...	919	3. Utah.....	395	+ 67.3
4. Colorado.....	319	4. Michigan.....	393	+ 48.1
5. Michigan.....	268	5. Wyoming.....	376	+ 415.0
Total U.S.	13,903	Total U.S.	7,279	- 50.0



Table II, Phase 5. The Rambouillet, with 122,000 in 1930 led in the total number of purebred sheep. In 1920, the Rambouillet was second, having a total of 106,000. The Shropshire held the lead in 1920 with 124,000.

The Hampshire, which ranked second in 1930, showed a percentage gain of 101.2, with a total of 103,476 for the United States; one-third of which were found in the two states, Idaho and Oregon. The five leading states in 1930 showed a concentration of the Hampshire sheep in the northwest. The percentage gain of 101.2 is double the percentage gain of any other breed of the purebred sheep.

The Shropshire dropped from first to third position, while the Merino dropped from third to fourth position.

Table 3 - States that rank within the top five for one or more breeds of livestock in 1920 and 1930.

CALIFORNIA			
1920		1930	
Breed	Rank	Breed	Rank
Berkshire - Swine	3		
Merino - Sheep	3		
Rambouillet - Sheep	3		
		American Saddle - Horses	3
		Suffolk - Sheep	3

IDAHO			
Cheviot - Sheep	2		
Lincoln - Sheep	1		
Rambouillet - Sheep	4		5
		Suffolk - Sheep	1

ILLINOIS			
Aberdeen Angus - Cattle	3		3
American Saddle - Horses	3		4
Belgian - Horses	4		4
Brown Swiss - Cattle	2		
Chester White - Swine	2		2
Clydesdale - Horses	2		2
Cheviot - Sheep	3		5
Dorset - Sheep	5		
Duroc-Jersey - Swine	2		2
Hackney - Horses	1		3
Hampshire - Swine	2		3
Oxford - Sheep	3		3
Percheron - Horses	1		1
Poland China - Swine	2		3
Shire - Horses	2		1
Shorthorn - Cattle	2		
Shropshire - Sheep	3		
Standard-Bred - Horses	1		2

INDIANA			
Belgian - Horses	3		2
Chester White - Swine	5		
Poland China - Swine	4		
Standard Bred - Horses	3		5
		Duroc-Jersey - Swine	5
		Jersey - Cattle	5

Table 5 (cont.)

## IOWA

Aberdeen Angus - Cattle	: 1	:	: 1
Belgian - Horses	: 1	:	: 1
Chester White - Swine	: 1	:	: 1
Clydesdale - Horses	: 1	:	: 1
Duroc - Jersey - Swine	: 1	:	: 1
Hampshire - Swine	: 1	:	: 1
Hereford - Cattle	: 2	:	: 5
Percheron - Horses	: 2	:	: 2
Poland China - Swine	: 1	:	: 1
Polled Durham - Cattle	: 2	:	:
Shire - Horses	: 1	:	: 2
Shorthorn - Cattle	: 1	:	: 1
Shropshire - Sheep	: 1	:	: 3
		: Brown Swiss - Cattle	: 3
		: Cheviot - Sheep	: 4
		: Merino - Sheep	: 3
		: Oxford - Sheep	: 4

## KANSAS

Galloway - Cattle	: 1	:	: 1
Hereford - Cattle	: 3	:	: 2
Percheron - Horses	: 3	:	: 3
Standard-Bred - Horses	: 5	:	: 4
		: Aberdeen Angus - Cattle	: 5
		: Ayrshire - Cattle	: 4
		: Duroc-Jersey - Swine	: 4
		: Shorthorn - Cattle	: 2

## KENTUCKY

American Saddle - Horses	: 1	:	: 1
Southdown - Sheep	: 1	:	: 1
Standard-Bred - Horses	: 2	:	: 1
Thoroughbred - Horses	: 1	:	: 1

## MAINE

Cheviot - Sheep	: 4	:	: 2
Leicester - Sheep	: 1	:	:

## MARYLAND

Thoroughbred - Horses	: 3	:	: 4
		: Shire - Horses	: 5

## MASSACHUSETTS

Ayrshire - Cattle	: 4	:	: 3
Hackney - Horses	: 4	:	: 1

Table 3 (cont.)

## NEBRASKA (cont.)

:	:Aberdeen Angus - Cattle	: 4
:	:Chester White - Swine	: 4
:	:Hampshire - Sheep	: 2
:	:Percheron - Horses	: 5

## NEW YORK

Ayrshire - Cattle	: 1	:	: 1
Brown Swiss - Cattle	: 3	:	:
Cheviot - Sheep	: 1	:	: 1
Dorset - Sheep	: 2	:	: 3
Guernsey - Cattle	: 2	:	: 3
Hackney - Horses	: 3	:	: 2
Holstein - Cattle	: 1	:	: 1
Jersey - Cattle	: 3	:	:
Leicester - Sheep	: 5	:	: 3
Oxford - Sheep	: 5	:	:
Southdown - Sheep	: 4	:	: 4
Suffolk - Sheep	: 1	:	:
:	:Shire - Horses	:	: 4
:	:Thoroughbred - Horses	:	: 5

## NORTH DAKOTA

Clydesdale - Horses	: 3	:	: 3
Percheron - Horses	: 5	:	:
:	:Galloway - Cattle	:	: 5
:	:Shorthorn - Cattle	:	: 5

## OHIO

Belgian - Horses	: 2	:	: 3
Chester White - Swine	: 4	:	: 5
Guernsey - Cattle	: 4	:	: 5
Holstein - Cattle	: 4	:	:
Jersey - Cattle	: 1	:	: 2
Merino - Sheep	: 1	:	: 1
Percheron - Horses	: 4	:	: 4
Shropshire - Sheep	: 4	:	: 4
Standard-Bred - Horses	: 4	:	:
:	:Berkshire - Swine	:	: 4
:	:Cheviot - Sheep	:	: 3
:	:Dorset - Sheep	:	: 1
:	:Leicester - Sheep	:	: 4
:	:Shire - Horses	:	: 3
:	:Southdown - Sheep	:	: 5



Table 3 (cont.)

## OREGON

Lincoln - Sheep	: 2	:	: 1
Merino - Sheep	: 2	:	:
	:	:Suffolk - Sheep	: 2

## PENNSYLVANIA

Ayrshire - Cattle	: 3	:	: 2
Berkshire - Swine	: 1	:	: 1
Brown Swiss - Cattle	: 4	:	:
Dorset - Sheep	: 1	:	: 2
Guernsey - Cattle	: 3	:	: 2
Hackney - Horses	: 2	:	: 5
Holstein - Cattle	: 3	:	: 3
Jersey - Cattle	: 4	:	:
Leicester - Sheep	: 4	:	: 2
	:	:Merino - Sheep	: 4
	:	:Standard-Bred - Horses	: 3

## SOUTH DAKOTA

Belgian - Horses	: 5	:	:
Clydesdale - Horses	: 4	:	:
Galloway - Cattle	: 3	:	: 4
Hampshire - Swine	: 4	:	: 5
Polled Durham - Cattle	: 5	:	:

## TENNESSEE

Southdown - Sheep	: 2	:	: 2
	:	:Jersey - Cattle	: 4

## TEXAS

Galloway - Cattle	: 4	:	:
Hereford - Cattle	: 1	:	: 1
Jersey - Cattle	: 2	:	: 1
Merino - Sheep	: 5	:	: 2
Polled Durham - Cattle	: 1	:	:
Rambouillet - Sheep	: 5	:	: 1
Thoroughbred - Horses	: 4	:	:
	:	:Poland China - Swine	: 2

## UTAH

Rambouillet - Sheep	: 1	:	: 2
	:	:Hackney - Horses	: 4
	:	:Lincoln - Sheep	: 3
	:	:Suffolk - Sheep	: 5

## BREED SHIFTS BY STATES

Table III. This table is self-explanatory.



Table 4 - Ratio of all livestock to purebred livestock.

Class of livestock	: Year	: Ratio of all livestock : of a specific class to : purebreds of the same : class
Purebred beef cattle	: 1920	: 62:1
	: 1930	: 82:1
Purebred dairy cattle	: 1920	: 73:1
	: 1930	: 49:1
Purebred horses	: 1920	: 164:1
	: 1930	: 202:1
Purebred swine	: 1920	: 29:1
	: 1930	: 158:1
Purebred sheep	: 1920	: 73:1
	: 1930	: 125:1

RATIO OF ALL LIVESTOCK TO  
PUREBRED LIVESTOCK

Table IV. This table is self-explanatory.

## CONCLUSIONS

There were only a few significant shifts in the leadership of states for different breeds of purebred livestock from 1920 to 1930. These were: Hereford from Iowa to Texas; Jersey from Ohio to Texas; Standardbred from Illinois to Kentucky; Dorset from Pennsylvania to Ohio; Lincoln from Idaho to Oregon; Rambouillet from Utah to Texas; Shropshire from Iowa to Michigan; Suffolk from New York to Idaho. The greatest expansion in purebred livestock production took place in Texas.

There was a significant change in one class of purebred livestock. Purebred dairy cattle increased 39.6 per cent while all other classes of purebred livestock decreased from 1.5 per cent in the case of purebred sheep to 82.5 per cent in the case of purebred swine.

It is interesting to note that:

- (a) Corn belt states with the exception of Texas remained the leaders in the production of purebred beef cattle, horses, and swine.

(b) The New England and the Great Lakes states remained the leaders in the production of purebred dairy cattle. There was, however, a significant increase in purebred dairy cattle in the corn belt states.

(c) There was no shifting in the production of purebred sheep from one section of the United States to another except in the cases of Rambouillet from Utah to Texas, and Suffolk from New York to Idaho.

(d) There was a marked decline in purebred livestock in the South except in the case of dairy cattle in which there was a small increase. However, three of the four states showing a decline in dairy cattle were Florida, Georgia, and Alabama.

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